

a reinforcement layer for mechanical stabilization of the identification layer, said reinforcement layer forming a substrate with the transponder unit arranged thereon; and
an adhesion layer for mounting the identification label on the object.

18. (NEW) An identification label according to claim 17, further comprising a boundary layer formed between said reinforcement layer and said adhesion layer wherein the transponder unit extends into said boundary layer.

19. (NEW) An identification label according to claim 17, wherein said adhesion layer is covered with a deadening layer and said reinforcement layer is provided with a reinforcement device for mounting the identification label onto the object.

20. (NEW) A base unit as a semi-finished product for producing an identification label with a transponder unit for surface mounting on or for mounting around an object, the base unit comprising:

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a reinforcement layer; and
an adhesion layer; and
a boundary layer formed between the reinforcement layer and the adhesion layer, the reinforcement layer serving as a substrate for arranging the transponder unit in the boundary layer.

21. (NEW) A base unit according to claim 20, wherein the transponder unit comprises a chip unit contacting an antenna coil made of wire and the reinforcement layer is provided with a window opening for at least proportionally accepting the chip unit and the antenna coil.

22. (NEW) A base unit according to claim 21, wherein the reinforcement layer is provided with additional window openings for accessing contact regions of the chip unit.

23. (NEW) A base unit according to claim 21, wherein the chip unit is at least partially surrounded by a reinforcement device surrounding the chip unit and extending in the plane of the reinforcement layer.

24. (NEW) A base unit according to claim 21, wherein the antenna coil is positioned on the reinforcement layer and is covered by the adhesion layer, forming a plane adhesion surface.

25. (NEW) A base unit according to claim 21, wherein the antenna coil is at least proportionally embedded in the reinforcement layer and is covered by the adhesion layer, forming a plane adhesion surface.

26. (NEW) A base unit according to claim 20, wherein the adhesion surface of the adhesion layer is covered by a deadening layer.

27. (NEW) A base unit according to claim 26, wherein the deadening layer is embodied by the clear surface of the reinforcement layer of an additional base unit.

28. (NEW) A process for producing an identification label with a transponder unit for surface mounting on or mounting around an object, comprising:

5 providing a base unit with a reinforcement layer, an adhesion layer and a boundary layer formed between the reinforcement layer and the adhesion layer with the reinforcement layer serving as a substrate for arranging the transponder unit in the boundary layer

applying an identification layer onto the base unit.

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29. (NEW) A process according to claim 28, wherein a carrier layer is applied onto the base unit prior to applying the identification layer for forming an intermediate layer.

30. (NEW) A process according to claim 29 wherein a permanent adhesion layer is applied onto the base unit, the identification layer, or the carrier layer in order to be mounted between the base unit and the identification layer or the carrier layer.

31. (NEW) A process according to claim 28, wherein an additional adhesion layer is applied onto the base unit, the identification layer, or the carrier layer in order to be mounted between the base unit and the identification layer or the carrier layer.